B.Sc., Mathematics
CBCS - OBE Curriculum Structure
(For students admitted from 2024 onwards)

SE M	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
I	I	Language - I		Course – I	6	3	EXT	25	75	100
	II	English - I		Course – I	6	3	EXT	25	75	100
	III	Core Course - I		Calculus	5	5	EXT	25	75	100
	III	Core Course - II		Theory of Equations and Vector Analysis	5	5	EXT	25	75	100
	III	First Allied Course - I		Offered by the Department of Commerce/Physics	4	3	EXT	25	75	100
	III	First Allied Practical		**Practical-I:**Offered by the Department of Commerce/Physics	2	-	INT	-	-	-
	IV	VBE		Value Based Education	2	2	EXT	25	75	100
				TOTAL	30	21				600
		EXTRA CREDIT COURSE		Communicative and Functional English offered by Department of English -(MANDATORY)	2	2	INT	25	75	100

II	I	Language - II		Course – II	6	3	EXT	25	75	100
	II	English - II		Course – II	6	3	EXT	25	75	100
	III	Core Course - III		Analytical Geometry of Three Dimensions and Trigonometry	5	5	EXT	25	75	100
	III	Core Course - IV		Numerical Methods	5	5	EXT	25	75	100
	III	First Allied Course - II		Offered by the Department of Commerce/Physics	4	3	EXT	25	75	100
	III	First Allied Practical		**Practical-I:** Offered by the Department of Commerce/Physics	2	3	INT	40	60	100
	IV	EVS		Environmental Studies	2	2	EXT	25	75	100
				TOTAL	**30**	**24**				**700**

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
III	I	Language - III		Course – III	6	3	EXT	25	75	100
	II	English - III		Course – III	6	3	EXT	25	75	100
	III	Core Course - V		Modern Algebra-I	5	5	EXT	25	75	100
	III	Core Course - VI		Programming in C	5	5	EXT	25	75	100
	III	Second Allied Course - I		Mathematical Statistics-I	4	3	EXT	25	75	100
	IV	NME - I		Offered by other Departments	2	2	EXT	25	75	100
	IV	SBE –I		Practical:MATLAB	2	2	INT	40	60	100
		TOTAL			**30**	**23**				**700**
		EXTRA CREDIT COURSE		**Internship – I** - (II Semester vacation) **Online/Offline Certificate, Report & Photo**-(**MANDATORY**)	-	1	INT	-	**-**	100
				Community Outreach Activity (II Semester vacation – **Report, Photo & Feedback**)–(**OPTIONAL**)	-	1	INT	-	-	100

	I	Language - IV		Course – IV	6	3	EXT	25	75	100
	II	English - IV		Course – IV	6	3	EXT	25	75	100
	III	Core Course -VII		Modern Algebra–II	6	5	EXT	25	75	100
IV	III	Second Allied Course - II		Mathematical Statistics–II	6	4	EXT	25	75	100
	III	Second Allied Practical		Practical:Mathematical Statistics	2	2	INT	40	60	100
	IV	NME - II		Offered by other departments	2	2	EXT	25	75	100
	IV	SBE – II		Practical:Excel Lab for Mathematical Statistics	2	2	INT	40	60	100
			TOTAL		**30**	**21**				**700**
		EXTRA CREDIT COURSE		Certificate Course(IKS) : Basic Concepts of Mathematics **Offered by other Departments (beyond class hours) (MANDATORY)**	2	2	INT	25	75	100
				Office Automation - **(MANDATORY)**	2	2	INT	25	75	100
				Internship – II (III Semester vacation) - **Online/Offline Certificate, Report & Photo – (OPTIONAL)**	-	1	INT	-	-	100

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
V	III	Core Course - VIII		Real Analysis	7	5	EXT	25	75	100
	III	Core Course - IX		Statics	7	5	EXT	25	75	100
	III	Core Course – X		Differential Equations and Fourier Series	7	5	EXT	25	75	100
	III	MBE - I		Graph Theory	5	4	EXT	25	75	100
	IV	SBE – III		Practical: Typesetting in LATEX	2	2	INT	40	60	100
	IV	SSD		Soft Skill Development	2	2	INT	25	75	100
				TOTAL	**30**	**23**				**600**
		EXTRA CREDIT COURSE		Value Added Course : Mathematics For Competitive Examinations **Offered to the same department (beyond class Hrs.)-(MANDATORY)**	2	2	INT	25	75	100
				Web Designing - **(MANDATORY)**	2	2	INT	25	75	100
				Internship – III (IV Semester vacation) –**Online/Offline Certificate, Report &Photo– (OPTIONAL)**	-	1	INT	-	-	100
				Online Course(MOOC/ Swayam/NPTEL) – **Before V Semester – (OPTIONAL)**	-	2	INT	-	-	100

	III	Core Course - XI		Sequences and Series	6	5	EXT	25	75	100
	III	Core Course - XII		Complex Analysis	5	5	EXT	25	75	100
	III	Core Course – XIII		Dynamics	5	5	EXT	25	75	100
	III	MBE- II		Operations Research	5	4	EXT	25	75	100
	III	MBE - III		Number Theory	5	4	EXT	25	75	100
	III	Project		Group project	3	3	EXT	20	80	100
VI	V	GS		Gender Studies	1	1	INT	25	75	100
	V	Extension		Extension Activities (NSS/NCC/YRC/Sports and Exnora)	-	1	INT	--	--	100
				TOTAL	**30**	**28**				**800**
				GRAND TOTAL	**180**	**140**				**4100**
		EXTRA CREDIT COURSE		Capacity Building for Enhancing Professional Skills **- Offered by the Department- (MANDATORY)**	2	2	INT	-	-	100
		EXTRA CREDIT COURSE		Internet Concepts - **(MANDATORY)**	2	2	INT	25	75	100

	NME OFFERED BY THE DEPARTMENT TO OTHER DEPARTMENT STUDENTS								
SEM	**PART**	**COURSE**	**COURSE TITLE**	**HRS**	**CRD**	**EXT/INT**	**CIA**	**SE**	**TOTAL**
III	IV	NME - I	General Skills in Mathematics-I	2	2	EXT	25	75	100
IV	IV	NME - II	General Skills in Mathematics-II	2	2	EXT	25	75	100

Allied Offered by the Department to other Department Students-Commerce

SEM	**PART**	**COURSE**	**COURSE TITLE**	**HRS**	**CRD**	**EXT/INT**	**CIA**	**SE**	**TOTAL**
I	III	First Allied course - I	Business Mathematics	4	3	EXT	25	75	100
I	III	First Allied Practical	Practical:Mathematics for commerce	2	-	-	-	-	-
II	III	First Allied course - II	Business Statistics	4	3	EXT	25	75	100
II	III	First Allied Practical	Practical:Mathematics for commerce	2	3	INT	40	60	100

Allied Offered by the Department to other Department Students-Chemistry and Physics

SEM	**PART**	**COURSE**	**COURSE TITLE**	**HRS**	**CRD**	**EXT/INT**	**CIA**	**SE**	**TOTAL**
III	III	Second Allied course - I	Allied Mathematics-I	4	3	EXT	25	75	100
III	III	Second Allied Practical	Practical:Mathematics for Chemistry and Physics	2	-	-	-	-	-
IV	III	Second Allied course - II	Allied Mathematics-II	4	3	EXT	25	75	100
IV	III	Second Allied Practical	Practical:Mathematics for Chemistry and Physics	2	3	INT	40	60	100

							EXT/			
SEM	**PART**	**COURSE**		**COURSE TITLE**	**HRS**	**CRD**	**INT**	**CIA**	**SE**	**TOTAL**
III	III	Second Allied course - I		Numerical Methods	4	3	EXT	25	75	100
III	III	Second Allied Practical		Practical: Mathematics for Computer Science	2	-	-	-	-	-
IV	III	Second Allied course - II		Operations Research	4	3	EXT	25	75	100
IV	III	Second Allied Practical		Practical: Mathematics for Computer Science	2	3	INT	40	60	100

Allied Offered by the Department to other Department Students-Computer Science Both Aided and SF

MAJOR BASED ELECTIVE

SEM	**PART**	**COURSE**	**COURSE TITLE**	**HRS**	**CRD**	**EXT /INT**	**CIA**	**SE**	**TOTAL**
V	III	MBE -I	**Graph Theory** Discrete Mathematics	5	4	EXT	25	75	100
VI	III	MBE - II	**Operations Research** Astronomy	5	4	EXT	25	75	100
VI	III	MBE -III	**Number Theory** Mathematical Modeling	5	4	EXT	25	75	100

SKILL BASED ELECTIVE									
SEM	PART	COURSE	COURSE TITLE	HRS	CRD	EXT /INT	CIA	SE	TOTAL
III	IV	SBE –I	Practical: **MATLAB** A Practical Introduction to SPSS	2	2	INT	40	60	100
IV	IV	SBE -II	Practical: **Excel Lab for Mathematical Statistics** R-Programming	2	2	INT	40	60	100
V	IV	SBE -III	Practical: **Typesetting in LATEX** Python Programming	2	2	INT	40	60	100

NON MAJOR ELECTIVE COURSES OFFERED TO OTHER DEPARTMENTS			
SEM	COURSE	COURSE CODE	COURSE TITLE
III	**I**		General Skills in Mathematics-I
IV	**II**		General Skills in Mathematics-II

VALUE ADDED COURSE Extra Credit Course for Skill Development			
SEM	COURSE	COURSE CODE	COURSE TITLE
V	**I**		Mathematics For Competitive Examinations

CERTIFICATE COURSE OFFERED TO OTHER DEPARTMENTS Extra Credit Course for Skill Development			
SEM	COURSE	COURSE CODE	COURSE TITLE
IV	**I**		Basic Concepts of Mathematics

SEETHALAKSHMI RAMASWAMI COLLEGE (Autonomous)

Affiliated to Bharathidasan University

TIRUCHIRAPPALLI – 620 002

Accredited with A+ by NAAC(4th cycle)
B.A./B.Sc. /B.Com./B.B.A./B.C.A. (CBCS System)

(For Students admitted from June 2024 onwards)

Subject	Number of Courses	Hours	Credit
Language	4	24	12
English	4	24	12
Core Course Science - (9Theory & 4 Practical) Arts & Humanities –(13 Theory) Mathematics and Commerce –(12Theory & 1 Practical)	13	73	65
Allied Course Science - (4Theory & 2 Practical) Arts & Humanities –(6 Theory) Mathematics and Commerce –(5 Theory & 1 Practical)	6	24	18
Major Based Elective	3	15	12
Skill Based Course	3	6	6
Non Major Elective	2	4	4
Value Based Education	1	2	2
Environmental Studies	1	2	2
Soft Skill Development	1	2	2
Gender Studies	1	1	1
Extension Activities	1	-	1
Group Project	1	3	3
Total	**41**	**180**	**140**

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B.Sc., Mathematics

(CBCS System)

(For Students admitted from June 2024 onwards)
EXTRACREDIT COURSES FOR SKILL DEVELOPMENT[*]

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Subject	Common/Subject Specific	Number of Courses	Credit
Office Automation(MANDATORY)	**Common to all**	1	2
Web Designing(MANDATORY)	**Common to all**	1	2
Internet Concepts(MANDATORY)	**Common to all**	1	2
Online Course(MOOC/SWAYAM/NPTEL)(OPTIONAL)	**Subject Specific**	1	2
Communicative and Functional English**(MANDATORY)**	**Common to all**	1	2
Community Outreach Activity**(OPTIONAL)**	**Subject Specific**	1	1
Certificate Course(IKS –Indian Knowledge System)**(MANDATORY)**	**Subject Specific (offered to other departments)**	1	2
Value Added Course**(MANDATORY)**	**Subject Specific**	1	2
Internship–**I To be completed during II Semester Vacation(MANDATORY)** **Internship – II & III(OPTIONAL)**	**Subject Specific**	3	3
Capacity Building for Enhancing Professional Skills**(MANDATORY)**	**50% Common to all(Placement Training)** **50% Subject Specific(Career Guidance Workshop by Respective departments)**	1	2
TOTAL		**12**	**20**

*The extra credit courses have been introduced in the OBE-CBCS Curriculum pattern to be implemented from 2024 onwards based

on the recommendations of the apex bodies namely **TANSCHE, UGC, Bharathidasan University (Parent University), NAAC in**

lieu to the National Education Policy.

****Courses with Credit Transfer provision**

B.Sc. Mathematics
(CBCS System)
EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT*

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
I			Communicative and Functional English offered by Department of English (**MANDATORY**)	2	2	INT	25	75	100
III			Community outreach activity (II Semester vacation – **Report, Photo & Feedback**) (**OPTIONAL**)	-	1	INT	-	-	100
III			**Internship – I** - (II Semester vacation) **Online/Offline - Certificate, Report & Photo** (**MANDATORY**)	-	1	INT	-	-	100
IV			Certificate Course (IKS) – **Offered to other Department (beyond class hours)** (**MANDATORY**)	2	2	INT	25	75	100
IV	EXTRA CREDIT COURSES		**Internship – II** (III Semester vacation) - **Online/Offline -Certificate, Report & Photo** (**OPTIONAL**)	-	1	INT	-	-	100
IV			**Office Automation (MANDATORY)**	2	2	INT	25	75	100
V			Value Added Course – **Offered to the same department (beyond class hours)** (**MANDATORY**)	2	2	INT	25	75	100
V			**Internship – III** (IV Semester vacation) – **Online/Offline - Certificate, Report & Photo** (**OPTIONAL**)	-	1	INT	-	-	100
V			**Web Designing (MANDATORY)**	2	2	INT	25	75	100
V			Online – Course (MOOC/Swayam/NPTEL) – **Before V Semester (OPTIONAL)**	-	2	INT	-	-	100
VI			Capacity Building for Enhancing Professional Skills **– Offered by the Department** (**MANDATORY**)	2	2	INT	-	-	100
VI			**Internet Concepts (MANDATORY)**	2	2	INT	25	75	100
			TOTAL		**20**				**1200**

B.Sc. Mathematics
(CBCS System)
MANDATORY EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT*

SEM	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
I		Communicative and Functional English offered by Department of English	2	2	INT	25	75	100
III		**Internship – I** - (II Semester vacation) **Online/Offline - Certificate, Report & Photo**	-	1	INT	-	-	100
IV		Certificate Course (IKS) – **Offered to other Department (beyond class hours)**	2	2	INT	25	75	100
IV		**Office Automation**	2	2	INT	25	75	100
V		Value Added Course – **Offered to the same department (beyond class hours)**	2	2	INT	25	75	100
V		**Web Designing**	2	2	INT	25	75	100
VI		Capacity Building for Enhancing Professional Skills **– Offered by the Department**	2	2	INT	-	-	100
VI		**Internet Concepts**	2	2	INT	25	75	100
		TOTAL NO OF COURSES 8	**14**	**15**				**800**

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B.Sc. Mathematics
(CBCS System)
OPTIONAL EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT*

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SEM	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
III		Community outreach activity (II Semester vacation – **Report, Photo & Feedback**)	-	1	INT	-	-	100
IV		**Internship – II** (III Semester vacation) - **Online/Offline -Certificate, Report & Photo**	-	1	INT	-	-	100
V		**Internship – III** (IV Semester vacation) – **Online/Offline - Certificate, Report & Photo**	-	1	INT	-	-	100
V		Online – Course (MOOC/Swayam/NPTEL) – **Before V Semester**	-	2	INT	-	-	100
		TOTAL NO OF COURSES 4		**5**				**400**